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(54) 【Title】 Method for Manufacturing Heat–Insulating Box

[Page (2) col. 1 lines 1 – 16]

[Claims]

[Claim1] A method for manufacturing a heat–insulating box, in which a space defined by two boxes is filled with a foamed heat–insulating component containing a foaming agent with an increased moisture addition ratio.

[Claim 2] A method for manufacturing a heat–insulating box, in which a space defined by two boxes is filled with a foamed heat–insulating component containing polyol, obtained by filling polyol, isocyanate, a foaming agent and a foam stabilizer, onto whose polyol side 2% to 3% of higher fatty acid metal salt is added.

[Claim 3] A method for manufacturing a heat–insulating box, in which a

space defined by two boxes is filled with a foamed heat–insulating component containing a silicone–based foam stabilizer whose principal chain is long and has its end composed of Me.

[Claim 4] A method for manufacturing a heat–insulating box, in which one box is formed of a synthetic resin whose acrylic ratio is raised to at least 70% and the other box is formed of an iron plate subjected to a releasing treatment, between which a foamed heat–insulating component is filled.

[Page (2) col. 1 lines 37 – 46]

[0005]

[Problem to be solved by the invention] However, in recent years, it is necessary to consider the easiness of disassembling a refrigerator or the like; when reviewing the conventional heat–insulating box 1 from this viewpoint, there has been a problem in that the foamed heat–insulating material 5, the outer box 3 and the inner box 2 are difficult to peel off/separate because of the property of polyol and the polarity relationship between the inner box 2 and the outer box 3.

[0006] In view of the above problem, the object of the present invention is to provide a method for manufacturing a heat–insulating box that can be peeled off/separated easily.

[Page (3) col. 3 line 26 – col. 4 line 15]

[0024]

[Effects of the invention] As described above, according to the present invention, a heat–insulating box is constituted by filling a space defined by an inner box and an outer box with a foamed heat–insulating material without self–adhesiveness, and therefore, it becomes easier to peel off the inner box and the foamed heat–insulating material from each other and to peel off the outer box and the foamed heat–insulating material from each other, thus obtaining an easily recyclable heat–insulating box.

[0025] Also, since a silicone foam stabilizer whose principal chain is long is added into the foamed heat–insulating material, it becomes easier to peel off

the foamed heat–insulating material and the outer box from each other and to peel off the foamed heat–insulating material and the inner box from each other, thus obtaining an easily recyclable heat–insulating box.

[0026] Furthermore, since a space defined by one box formed of a synthetic resin whose acrylic ratio is at least 70% and the other box formed of an iron plate subjected to a releasing treatment is filled with a foamed heat–insulating material, it is easy to peel off the foamed heat–insulating material and the outer box from each other and to peel off the foamed heat–insulating material and the inner box from each other, thus obtaining an easily recyclable heat–insulating box.

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